MONTGOMERY COUNTY PUBLIC SCHOOLS
LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
Thurgood Marshall Elementary School

12260 McDonald Chapel Drive,
Gaithersburg, MD 20878

Date of Test Report:	6/1/2018
Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	13.0

Project Status

Initial testing complete: All results less than 20 ppb.

June 7, 2018

Mr. Brian Mullikin
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Drive
Building A, First Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Testing Service

Location: Thurgood Marshall Elementary School
12260 McDonald Chapel Drive,
Gaithersburg, MD 20878

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Thurgood Marshall Elementary School, located at 12260 McDonald Chapel Drive, Gaithersburg, MD 20878.

Scope of Services:

PSI conducted lead in water testing at Thurgood Marshall Elementary School in accordance with the Environmental Protection Agency (EPA) and Maryland House Bill (HB) 270. State regulation established an action level of 20 parts per billion (ppb) to evaluate lead levels in school buildings, a concentration EPA recommends that schools take action to reduce lead below this action level. Maryland requires periodic testing for the presence of lead in drinking water in occupied public and nonpublic school buildings. EPA developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

PSI visited the site on 4/18/18 and 4/19/18 to collect samples from 80 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

Results:

There were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 4/19/18 are shown in Attachment A.

Discussion:

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@psiusa.com

Attachments: A – Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: Professional Services Industries, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Thurgood Marshall Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
E41655		Work Room Administration		Faucet	2.3	Pass	Testing Complete
E41663		Hallway	Across from CR 1	Cooler	<1.0	Pass	Testing Complete
E41664		Hallway	Across from CR 1	Cooler	<1.0	Pass	Testing Complete
E41671	3	Kindergarten		Faucet	13.0	Pass	Testing Complete
E41686		Kitchen		Faucet	<1.0	Pass	Testing Complete
E41687		Kitchen		Faucet	<1.0	Pass	Testing Complete
E41688		Kitchen		Faucet	1.9	Pass	Testing Complete
E41689		Kitchen		Faucet	5.9	Pass	Testing Complete
E41723		Hallway	Across from CR 17	Cooler	<1.0	Pass	Testing Complete
E41724		Hallway	Across from CR 17	Cooler	<1.0	Pass	Testing Complete
LW09191		Health Room Administration		Faucet	1.5	Pass	Testing Complete
LW09192	7	Kindergarten		Faucet	1.2	Pass	Testing Complete
LW09193	7	Kindergarten		Faucet	2.6	Pass	Testing Complete
LW09194	7	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09195	5	Kindergarten		Faucet	4.0	Pass	Testing Complete
LW09196	5	Kindergarten		Faucet	2.4	Pass	Testing Complete
LW09197	5	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09198	8	Music		Faucet	2.3	Pass	Testing Complete
LW09199	6	Classroom		Faucet	2.0	Pass	Testing Complete
LW09200	4	Classroom		Faucet	1.5	Pass	Testing Complete
LW09201	3	Kindergarten		Faucet	1.8	Pass	Testing Complete
LW09202	3	Kindergarten		Bubbler - Indoor	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09203	1	Kindergarten		Faucet	1.0	Pass	Testing Complete
LW09204	1	Kindergarten		Faucet	4.3	Pass	Testing Complete
LW09205	1	Kindergarten		Bubbler - Indoor	1.5	Pass	Testing Complete
LW09206	DC129	Day Care	Bar T Kitchen	Faucet	<1.0	Pass	Testing Complete
LW09207	DC129	Day Care	Bar T Kitchen	Faucet	1.0	Pass	Testing Complete
LW09208	28	Work Room		Faucet	2.0	Pass	Testing Complete
LW09209	29	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09210	27	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09211	27	Day Care	Bar T	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09212	25	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09213	25	Day Care	Bar T	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09214	23	Classroom		Faucet	3.5	Pass	Testing Complete
LW09215	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09216	21	Classroom		Faucet	2.5	Pass	Testing Complete
LW09217	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09218	19	Special Ed		Faucet	1.5	Pass	Testing Complete
LW09219	19	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09220	17	Special Ed	Pep Classic	Faucet	1.4	Pass	Testing Complete
LW09221	17	Special Ed	Pep Classic	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09222	14	Classroom		Faucet	3.8	Pass	Testing Complete
LW09223	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09224	15	Classroom		Faucet	2.2	Pass	Testing Complete
LW09225	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09226	13	Classroom		Faucet	2.9	Pass	Testing Complete
LW09227	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09228	12	Classroom		Faucet	1.7	Pass	Testing Complete
LW09229	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09230	10	Break Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09231	11	Classroom		Faucet	2.0	Pass	Testing Complete
LW09233	9	Special Ed		Faucet	1.7	Pass	Testing Complete
LW09234	9	Special Ed		Bubbler - Indoor	1.4	Pass	Testing Complete
LW09235	44	Classroom		Faucet	3.9	Pass	Testing Complete
LW09236	44	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09237	42	Classroom		Faucet	3.2	Pass	Testing Complete
LW09238	42	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW09239	40	Classroom		Faucet	2.6	Pass	Testing Complete
LW09240	40	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09241	38	Classroom		Faucet	3.2	Pass	Testing Complete
LW09242	38	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09243		Hallway	Across from CR 38	Cooler	<1.0	Pass	Testing Complete
LW09244		Hallway	Across from CR 38	Cooler	<1.0	Pass	Testing Complete
LW09245	36	Classroom		Faucet	5.1	Pass	Testing Complete
LW09246	36	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09247	34	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09248	34	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW09249	41	Classroom		Faucet	3.4	Pass	Testing Complete
LW09251	39	Classroom		Faucet	2.6	Pass	Testing Complete
LW09252	39	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09253	35	ESOL		Faucet	<1.0	Pass	Testing Complete
LW09254	35	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09255	33	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW09256	33	Resource Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09257	32	Classroom		Faucet	3.0	Pass	Testing Complete
LW09258	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09259	30	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09260	30	Classroom		Bubbler - Indoor	5.8	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09261		Hallway	Outside of All Purpose Room	Cooler	<1.0	Pass	Testing Complete
LW09262		Hallway	Outside of All Purpose Room	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion